

**DECLARATION  
AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

Each inventor's residence, mailing address and citizenship are as stated below at 201 et seq. underneath each inventor's name.

I believe I am the original, first and sole inventor if only one name is listed at 201 below, or an original, first and joint inventor if plural names are listed at 201 et seq. below, of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**METHODS AND APPARATUS  
FOR CONTENT DELIVERY VIA APPLICATION  
LEVEL MULTICAST WITH MINIMUM COMMUNICATION DELAY**

and for which a patent application:

☒ is attached hereto and includes amendment(s) filed on *(if applicable)*

☐ was filed in the United States on as Application No. with amendment(s) filed on *(if applicable)*

☐ was filed as PCT international Application No. on and was amended under PCT Article 19 on (N/A).

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application in which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent, inventor's or plant breeder's certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

EARLIEST FOREIGN APPLICATION(S), IF ANY, FILED PRIOR TO THE FILING DATE OF THE APPLICATION			
APPLICATION NUMBER	COUNTRY	DATE OF FILING (day, month, year)	PRIORITY CLAIMED
			YES <input type="checkbox"/> NO <input type="checkbox"/>

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith as follows:

Richard M. Ludwin (Reg. 33,010), Kevin M. Jordan (Reg. 40,277), Christopher A. Hughes (Reg. 26,914), John E. Hoel (Reg. 26,279), Joseph C. Redmond, Jr. (Reg. 18,753), Douglas W. Cameron (Reg. 31,596), Wan Yee Cheung (Reg. 42,410), Thu Ann Dang (Reg. 41,544), Louis P. Herzberg (Reg. 41,500), Derek S. Jennings (Reg. 41,473), Stephen C. Kaufman (Reg. 29, 551), Daniel P. Morris (Reg. 32,053), Alison D. Mortinger (Reg. 39,306), Louis J. Percello (Reg. 33,206), Robert M. Trepp (Reg. 25,933), Gail H. Zarick (Reg. 43,303), Rafael A. Perez-Pineiro (Reg. 46,041) and Marian Underweiser (Reg. 46,134).

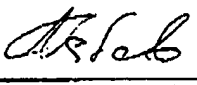
<b>SEND CORRESPONDENCE TO:</b>		<b>George A. Willingham Attorney-At-Law</b> 3201 New Mexico Avenue, N.W., Suite 350 Washington, D.C. 20016		<b>DIRECT TELEPHONE CALLS TO:</b> (202) 895-1394	
2 0 1	<b>FULL NAME OF INVENTOR</b>	<b>LAST NAME</b> <b>LIU</b>	<b>FIRST NAME</b> <b>Zhen</b>	<b>MIDDLE NAMES</b>	
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> <b>Tarrytown</b>	<b>STATE OR FOREIGN COUNTRY</b> <b>New York</b>	<b>COUNTRY OF CITIZENSHIP</b> <b>France</b>	
	<b>POST OFFICE ADDRESS</b>	<b>STREET</b> <b>37 Roundabend Road</b>	<b>CITY</b> <b>Tarrytown</b>	<b>STATE OR COUNTRY</b> <b>New York</b>	<b>ZIP CODE</b> <b>10591</b>
2 0 2	<b>FULL NAME OF INVENTOR</b>	<b>LAST NAME</b> <b>RIABOV</b>	<b>FIRST NAME</b> <b>Anton</b>	<b>MIDDLE NAME</b>	
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b> <b>New York</b>	<b>STATE OR FOREIGN COUNTRY</b> <b>New York</b>	<b>COUNTRY OF CITIZENSHIP</b> <b>Russian Federation</b>	
	<b>POST OFFICE ADDRESS</b>	<b>STREET</b> <b>452 Riverside Drive, Apt. 61</b>	<b>CITY</b> <b>New York</b>	<b>STATE OR COUNTRY</b> <b>New York</b>	<b>ZIP CODE</b> <b>10027</b>
2 0 3	<b>FULL NAME OF INVENTOR</b>	<b>LAST NAME</b> <b>ZHANG</b>	<b>FIRST NAME</b> <b>LI</b>	<b>MIDDLE NAME</b>	
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	<b>POST OFFICE ADDRESS</b>	<b>STREET</b> <b>1387 Hanover Street</b>	<b>CITY</b> <b>Yorktown Heights</b>	<b>STATE OR COUNTRY</b> <b>New York</b>	<b>ZIP CODE</b> <b>10598</b>
2 0 4	<b>FULL NAME OF INVENTOR</b>	<b>LAST NAME</b>	<b>FIRST NAME</b>	<b>MIDDLE NAME</b>	
	<b>RESIDENCE &amp; CITIZENSHIP</b>	<b>CITY</b>	<b>STATE OR FOREIGN COUNTRY</b>	<b>COUNTRY OF CITIZENSHIP</b>	
	<b>POST OFFICE ADDRESS</b>	<b>STREET</b>	<b>CITY</b>	<b>STATE OR COUNTRY</b>	<b>ZIP CODE</b>

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

<b>SIGNATURE OF INVENTOR 201 - ZHEN LIU</b>	<b>SIGNATURE OF INVENTOR 202 - ANTON RIABOV</b>	<b>SIGNATURE OF INVENTOR 203 - LI ZHANG</b>
<b>DATE</b>	<b>DATE</b>	<b>DATE</b>
<b>SIGNATURE OF INVENTOR 204</b>		
<b>DATE</b>		

SEND CORRESPONDENCE TO:		George A. Willingham Attorney-At-Law 3201 New Mexico Avenue, N.W., Suite 350 Washington, D.C. 20016		DIRECT TELEPHONE CALLS TO: (202) 895-1394	
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	POST OFFICE ADDRESS	STREET 37 Roundabout Road	CITY Tarrytown	STATE OR COUNTRY New York	ZIP CODE 10591
202	FULL NAME OF INVENTOR	LAST NAME RIABOV	FIRST NAME Anton	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY New York	STATE OR FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP Russian Federation	
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203	FULL NAME OF INVENTOR	LAST NAME ZHANG	FIRST NAME Li	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Yorktown Heights	STATE OR FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP P. R. China	
	POST OFFICE ADDRESS	STREET 1387 Hanover Street	CITY Yorktown Heights	STATE OR COUNTRY New York	ZIP CODE 10598
204	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE

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SIGNATURE OF INVENTOR 001 - ZHEN LIU	SIGNATURE OF INVENTOR 002 - ANTON RIABOV 	SIGNATURE OF INVENTOR 003 - LI ZHANG
DATE	DATE 3/12/04	DATE
SIGNATURE OF INVENTOR 004		
DATE		

SEND CORRESPONDENCE TO:		George A. Willingham Attorney-At-Law 3201 New Mexico Avenue, N.W., Suite 350 Washington, D.C. 20016		DIRECT TELEPHONE CALLS TO: (202) 995-1394	
201	FULL NAME OF INVENTOR	LAST NAME LIU	FIRST NAME Zhen	MIDDLE NAME	
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	POST OFFICE ADDRESS	STREET 37 Roundhead Road	CITY Tarrytown	STATE OR COUNTRY New York	ZIP CODE 10591
203	FULL NAME OF INVENTOR	LAST NAME RIABOV	FIRST NAME Anton	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY New York	STATE OR FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP Russian Federation	
	POST OFFICE ADDRESS	STREET 452 Riverside Drive, Apt. 61	CITY New York	STATE OR COUNTRY New York	ZIP CODE 10027
203	FULL NAME OF INVENTOR	LAST NAME ZHANG	FIRST NAME Li	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY Yorktown Heights	STATE OR FOREIGN COUNTRY New York	COUNTRY OF CITIZENSHIP P. R. China	
	POST OFFICE ADDRESS	STREET 1387 Harover Street	CITY Yorktown Heights	STATE OR COUNTRY New York	ZIP CODE 10598
204	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME	
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP	
	POST OFFICE ADDRESS	STREET	CITY	STATE OR COUNTRY	ZIP CODE

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SIGNATURE OF INVENTOR NO. 201 ZHEN LIU	SIGNATURE OF INVENTOR NO. 203 ANTON RIABOV	SIGNATURE OF INVENTOR NO. 203 LI ZHANG
DATE	DATE	DATE 3/12/2004
SIGNATURE OF INVENTOR NO. 204		
DATE		